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Sign up

Service Mesh training: Optimize your microservices

OFFICIAL SERVICE MESH FUNDAMENTALS COURSE INCLUDED (LFS243)

1 day (7 hours)

Presentation

Our Service Mesh training course will teach you the fundamentals of this type of program. You'll learn how to optimize communication within your microservices infrastructure.

A service mesh is an essential DevOps tool for improving [communication between your containerized applications](#), so that they can scale more easily.

Our training course will introduce you to the fundamentals of this concept. You'll discover the advantages, best practices and [best tools](#) available on the market.

By the end of this course, you'll know why to use a mesh service, which tool to choose and how to integrate and manipulate these tools in the right way (including learning about data and control planes).

Training content

- 1 day training
- Over 15 hours of video training (the Service Mesh Fundamentals course: LFS243)

Objectives

- Understanding mesh service and its benefits
- Knowing how to use it properly

- Choose and identify the best tools

Target audience

- DevOps
- System administrators
- Developers
- Architects

Prerequisites

- Knowledge of system administration
- Knowledge of containerization

Our Service Mesh training program

Native cloud applications

- The benefits of microservices
- Problems encountered by native cloud applications
- What is mesh service?
- East-west and north-south traffic
- Why use the mesh service?
- System limits
- Improving resilience

The best tools

- Istio
- Consul
- Linkerd
- Traefik
- Envoy

Architecture

- Service Mesh rules
- Architectural overview
- SMI
- SPIFFE

Using a mesh service

- Data planes
- Control planes
- Meshsync
- Using Meshery

Best practices

- Best deployment practices
- Managing your traffic correctly
- Monitoring
- Good safety practices

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.